Design, Construction, and Equipment WAC 296-863-200

Summary

YOUR RESPONSIBILITY:

To make sure PITs are properly designed, constructed, and equipped

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Summary

Liquefied petroleum gas (LPG) PITs

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MAC 296-863-20040	200-0

Rule

WAC 296-863-20005

Make sure PITs meet design and construction requirements

You must

- Make sure PITs meet American National Standards Institute (ANSI) design and construction requirements.
- Make sure PITs manufactured **before** March 1, 2000, meet the requirements of ANSI B56.1-1969, Safety Standards for Powered Industrial Trucks.
- Make sure PITs manufactured **on or after** March 1, 2000, meet the requirements of ANSI B56.1-1993, Safety Standards for Powered Industrial Trucks.
- Make sure rough terrain forklift trucks manufactured on or after January 1, 2005, meet the design and construction requirements of ANSI B56.6-1992, Safety Standard for Rough Terrain Forklift Trucks.



Note:

- There may be a nameplate on the PIT or a statement in the instruction manual indicating that the PIT meets the requirement of the appropriate ANSI standard. If in doubt, check with the manufacturer.
- ➤ ANSI B56.1-1993 and B56.6-1992 are available by:
 - Purchasing copies by writing:

American National Standards Institute

11 West 42nd Street

New York, NY 10036

or

- Contacting the ANSI website at www.ansi.org



WAC 296-863-200

Rule

WAC 296-863-20010

Meet these requirements when modifying or altering PITs

You must

- Have written approval from the PIT manufacturer before making any modifications to the PIT that:
 - Change the relative position of the various parts of the PIT from what they were when originally received from the manufacturer
 - Add extra parts not provided by the PIT manufacturer
 - Eliminate any parts
 - Affect capacity or safe operation.



Exemption:

This doesn't apply to converting PITs from gasoline to LPG fuel.

- Make sure any modifications or additions to the PIT are shown on the plates, tags, or decals to reflect any changes in the PITs:
 - Capacity
 - Operation
 - Maintenance instructions.

Design, Construction, and Equipment

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Rule

WAC 296-863-20015

Make sure PITs are properly labeled

You must

- Make sure all PIT nameplates as well as any stickers, stencils or marks that relate to the stability and safety of the PIT are:
 - In place
 - Legible.



Note:

- ➤ PITs should have a nameplate installed by the manufacturer that contains at least the following information:
 - Model and serial number
 - Approximate weight of the PIT
 - Certification that the manufacturer has met the mandatory requirements of ANSI B56.1, Safety Standards for Powered Industrial Trucks
 - Type designation to show the PIT meets the applicable requirements of a nationally recognized testing laboratory.

- Make sure PITs approved for hazardous (classified) locations have a label or some other identifying mark indicating acceptance by a nationally recognized testing laboratory.
- Make sure PITs with front-end attachments, including fork extensions, are marked to:
 - Identify the attachment
 - Show the approximate combined weight of the PIT and attachment
 - Show the maximum capacity of the PIT with attachments at their highest elevation and the load laterally centered.

Rule

WAC 296-863-20020

Protect operators from falling objects

You must

Use an overhead guard to protect operators from falling objects such as small packages, boxes, and bagged material.



Exemption:

- A high lift rider truck may be operated without the guard, providing all of the following conditions are met:
 - Vertical movement of the lifting mechanism is restricted to 72 inches (1800 mm) or less from the ground
 - The high lift rider truck will operate only in an area where:
 - The top of a tiered load won't be more than 120 inches (3000 mm) high
 - The bottom of a tiered load won't be more than 72 inches (1800 mm) high
 - Only stable loads are handled
 - The operator is protected from objects falling from high stack areas.



Note:

The overhead guard isn't intended to withstand the impact of a maximum capacity load of the PIT.

- Equip all high lift rider trucks with overhead guards that meet the design and construction requirements of American National Standards Institute (ANSI) B56.1-1993, Safety Standards for Powered Industrial Trucks.
- Use a vertical load backrest extension to keep all or any part of the load from falling backwards towards the operator if the load presents a hazard.

WAC 296-863-200

Rule

WAC 296-863-20025

Provide fall protection on order pickers

You must

- Make sure order pickers have either:
 - Standard guardrails on all open sides or
 - A safety harness and lanyard that are connected to a tie off point that has been approved by the PIT manufacturer.
- Make sure personal fall arrest equipment meets the requirements of WAC 296-24-87035, Appendix C, Personal Fall Arrest Systems.

WAC 296-863-20030

Provide directional lights on PITs when required

You must

• Provide PITs with directional lighting if the general lighting is less than 2 lumens per square foot.



Note:

- Lighting levels can be measured with a light meter.
- ➤ Conversion information: 1 foot-candle = 1 lumen incident per square foot = 10.76 lux.

WAC 296-863-200

Rule

WAC 296-863-20035

Make sure liquefied petroleum gas (LPG) fueled PITs meet these requirements

You must

- Use fuel containers that meet **either** of the following minimum requirements:
 - A U.S. Department of Transportation (USDOT) approved container authorized for LP-gas service that has a minimum service pressure of 240 pounds per square inch gage (psig)

or

- A container Type 250 that has a design pressure of 312.5 psig.
- Make sure fuel containers don't use variable liquid-level gages that require venting fuel to the atmosphere.
- Make sure the fuel system of PITs used inside buildings:
 - Has an approved automatic shutoff valve, located ahead of the inlet of the gasair mixer, that will stop the flow of fuel to the mixer if the engine stops
 and
 - Use not more than 2 LP-gas fuel containers.
- Make sure the fuel system of PITs used outdoors has an approved automatic shutoff valve, located ahead of the inlet of the gas-air mixer, that will stop the flow of fuel to the mixer if both:
 - The ignition is off
 - The engine isn't running.



Note:

You may use an atmospheric type regulator (zero governor) as a shutoff valve if the PIT is used outdoors.

02/05

WAC 296-863-200

Rule

WAC 296-863-20040

Meet these requirements when converting gasoline fuel PITs to liquefied petroleum gas (LPG) fuel

You must

- Make sure PITs originally approved to use gasoline for fuel that are then converted to LPG fuel:
 - Meet the requirements for LP or LPS designated PITs and
 - Are converted using only approved equipment.



Definitions:

- **LP** refers to liquefied petroleum gas-powered trucks that, in addition to meeting all the requirements for type G trucks, have minimum acceptable safeguards against inherent fire hazards.
- LPS refers to liquefied petroleum gas powered trucks that, in addition to meeting the requirements for LP type trucks, have additional exhaust, fuel, and electrical systems safeguards.



Note:

- Tables 1, 2, and 3 list the types of PITs and the locations where they can be used safely.
- The description of the component parts of the conversion system and the recommended method of installation on specific PITs are contained in the "Listed by Report" provided by the testing laboratory.

Notes